

Floating Wireless Sonar SONA.rBall User Guide

[URL] <http://www.sonarball.com>

[QR Code]



CHO & Company

輸入販売元：株式会社CHO&Company
Manufacturer: SonarTech Co., Ltd.

2014/5, 2nd edition



Thank you for purchasing SONA.rBall

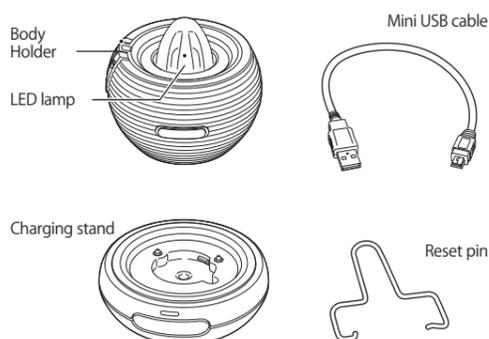
- Read carefully this guide before you make any use of SONA.rBall. Check the "beginner's guide" in the official SONA.rBall Web page for more detailed information.
- Keep safely this guide after you read it.
- Use the QR Code or the URL above to access the official Web page

※ Some screenshots in this guide might differ from the real ones in SONA.rBall app. We are constantly updating and improving the design and functions of the app.

First steps

Attached accessories

- SONA.rBall body
- Charging stand
- Mini USB cable
- Pouch
- Reset pin
- User Guide/Warranty



How to switch SONA.rBall ON/OFF

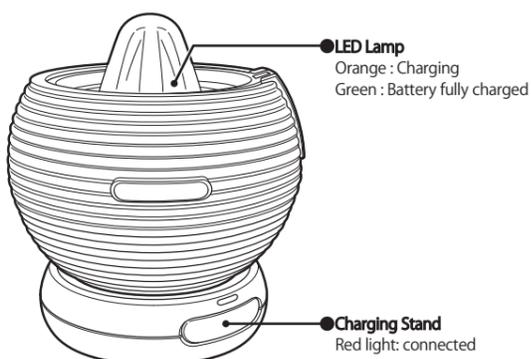
ON : SONA.rBall turns automatically ON when floating on water
OFF : After a little while out of the water, the LED lamp will blink red and the power will turn automatically OFF

※ Wash the device with fresh water and wipe all water drops after use for storage. If water is left on the body, the metallic sensors can rust.

Charging SONA.rBall

Plug the Mini USB cable to the charging stand, and fix SONA.rBall to the stand. The charging will start when you see the upper LED lamp turn orange. During the charging the lamp will turn red, and when the battery is full it will turn green.

Please remember the stand is not waterproof. Be sure to wipe all water from SONA.rBall before you fix it on the stand. Finally, be sure to remove SONA.rBall from the charging stand when the battery is full.



Fix a line to SONA.rBall

Fix tightly a strong line or cord in the holder hole to avoid losing your SONA.rBall

○ For more details, see the "beginner's guide" on SONA.rBall official Web page.

Setup

For iPhone

For Android

Setup For iPhone, iPad, iPod Touch

Installing SONA.rBall app

For iPhone, iPad and iPod Touch, please install the app 『SONA.rBall』 from the App Store.

- ① Tap the App Store icon on your iOS device home screen.
 - ② Tap on "Search", and type "SONA.rBall".
 - ③ Choose 『SONA.rBall』 from the results list
Tap on "Free" and on "Install" to start the app install. When the install is done, the app icon will appear on your home screen, you can then use it.
- ※ Follow the screen instructions if you are not signed in to the App Store.

Pairing with your device (Bluetooth connection)

SONA.rBall works wirelessly with your iOS device. To setup the connection, you need to PAIR (connect with Bluetooth) your device to SONA.rBall.

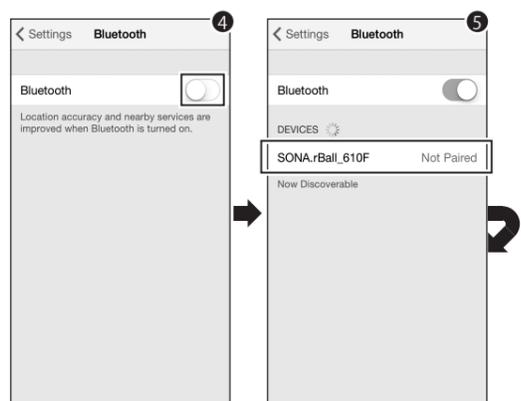
Please refer to the "Beginner Guide" on SONA.rBall official Web page for more details about the pairing settings.

- Let us introduce the pairing settings for iOS devices with iOS 7.
- ※ The screens and the procedure shown here might differ depending on your iOS device and on the iOS version.
 - ※ Please process to the pairing settings within less than 1m of distance between SONA.rBall and your iOS device.

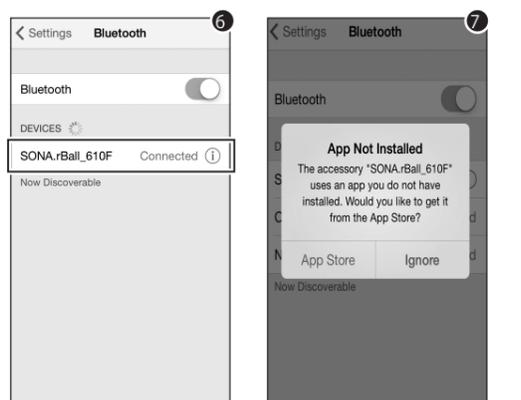
- ① Switch SONA.rBall ON by making it float on the water (Power will turn automatically ON when in contact with water). The LED lamp will then blink a while. You can set up the pairing connection after it stops blinking.
- ② Tap on the icon "Settings" on your iOS device Home screen.
- ③ Tap on "Bluetooth" to move to the Bluetooth menu.



- ④ Tap on the Bluetooth switch to set it ON.
- ⑤ After switching it ON, devices scanning will start automatically. After a little while, 「SONA.rBall...」 or 「SONA...」 will appear in the devices field. Tap it to pair your SONA.rBall with your device.
If nothing appears in the devices field, check your SONA.rBall battery and try to pair again after a full charge.



- ⑥ The pairing settings is successful if 「Connected」 appears after 「SONA.rBall...」.
- ⑦ If you didn't install SONA.rBall app, a pop-up will appear to invite you to install it.



Setup For Smartphones and tablets with Android

Installing SONA.rBall app

For Smartphones and tablets with Android (Android devices), please install the app 『SONA.rBall』 from the Play Store.

- ① Tap on the "Play Store" icon on your Android device Home screen.
 - ② Tap "Search", and insert "SONA.rBall".
 - ③ Choose 『SONA.rBall』 from the results list. Tap on "Install", and "Accept" in the access rights window. When the install is done, the app icon will appear on your home screen, you can then use it.
- ※ Follow the screen instructions if you are not signed in to the Play Store.

Pairing with your device (Bluetooth connection)

SONA.rBall works wirelessly with your Android device. To setup the connection, you need to PAIR (connect with Bluetooth) your Android device to SONA.rBall.

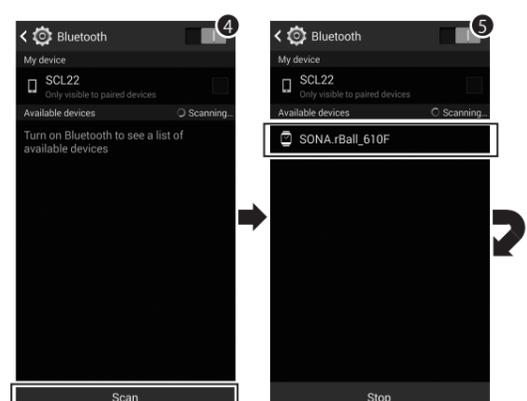
Please refer to the "Beginner Guide" on SONA.rBall official Web page for more details about the pairing settings.

- Let us introduce the pairing settings for iOS devices with Android 4.0.
- ※ The screens and the procedure shown here might differ depending on your Android device and on the OS version.
 - ※ Please process to the pairing settings within less than 1m of distance between SONA.rBall and your Android device.

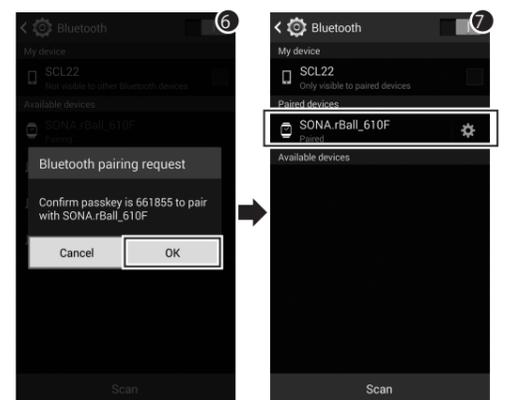
- ① Switch SONA.rBall ON by making it float on the water (Power will turn automatically ON when in contact with water). The LED lamp will then blink a while. You can set up the pairing connection after it stops blinking.
- ② Tap on the Menu button on your Android, and on "Settings" to setup your Bluetooth. The Settings button location may differ depending on your Android device.
- ③ Tap on the "Bluetooth" check box to set it ON, and tap on the Bluetooth section to move to the Bluetooth menu.



- ④ Tap on "Scan" to make appear the Bluetooth devices around you.
- ⑤ After switching it ON, devices scanning will start automatically. After a little while, 「SONA.rBall_****」 or the device ID address (12 symbols such as A1-B2-C3-D4-E5-F6) will appear in the devices field. Tap it to pair your SONA.rBall with your Android device.
If nothing appears in the devices field, check your SONA.rBall battery and try to pair again after a full charge.



- ⑥ The pairing settings is successful if 「Paired」 appears below 「SONA.rBall_****」.
- ⑦ If your SONA.rBall name appears in the paired devices part, the pairing setup is successfully done.



How to use SONA.rBall

1 Launching SONA.rBall app

Tap [SONA.rBall] icon on your home screen to launch the app.

2 Fix a line on SONA.rBall and make it float on the water.

Fix a line on the holder, and launch it on the water. The red LED light will blink red while communicating with your smartphone.

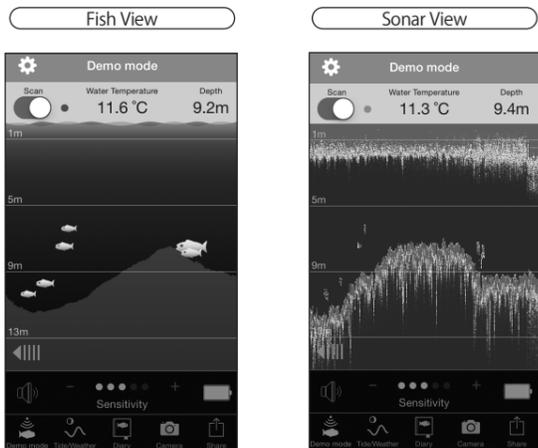
3 Start the Water Scanning

The underwater environment will display on your screen after you tap the Scan button on the app main screen. 3 ultrasound waves/second will be sent towards the water bottom when the scanning is running, and the returned ultrasound data will display sliding from the right to the left of your screen, meaning the latest underwater data are on the right of your screen. The red parts show where the ultrasound reflection is strong. The upper part is the screen shows the surface, and the straight red line in the lower part shows the water bottom. The red or green dots between the surface and the bottom means there are fishes or objects in the water

About the Scan Mode Display

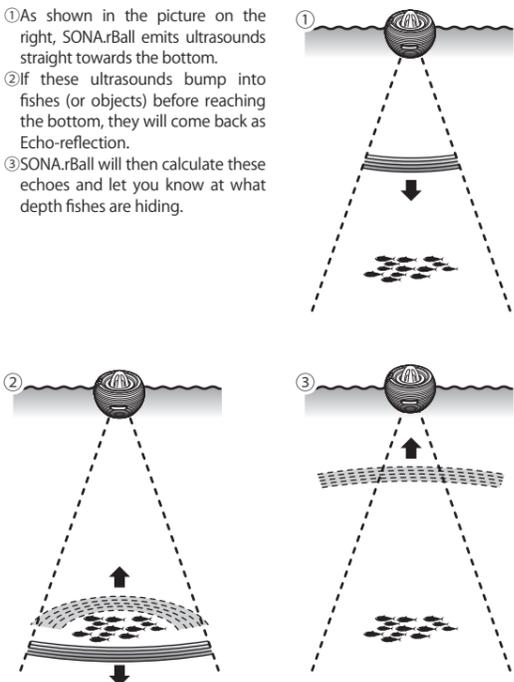
You can enjoy 2 Scan Modes, "Fish View" for beginners, and "Sonar View" for advanced users.

Fish View : Fishes will be displayed with Fish icons.
Sonar View : Regular Fish Finder display

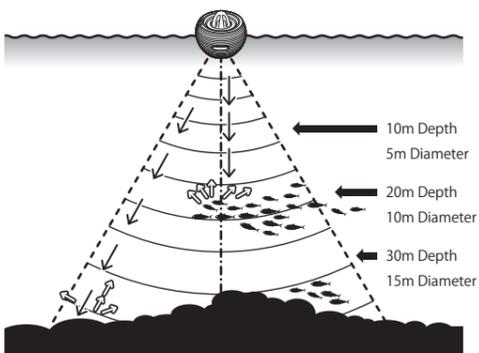


About the Sonar Mechanism

- As shown in the picture on the right, SONA.rBall emits ultrasounds straight towards the bottom.
- If these ultrasounds bump into fishes (or objects) before reaching the bottom, they will come back as Echo-reflection.
- SONA.rBall will then calculate these echoes and let you know at what depth fishes are hiding.

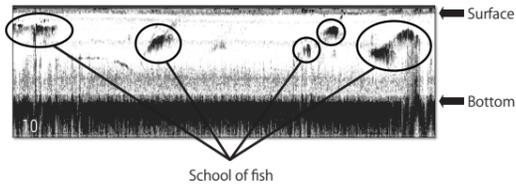


SONA.rBall's calculation area is as follows, with the diameter increasing with depth.



About the Sonar display

Fish finders display the data gathered from ultrawaves reflection from the right of the screen. The red parts show where the ultrasound reflection is strong. The upper part is the screen shows the surface, and the straight red line in the lower part shows the water bottom. The red or green dots between the surface and the bottom means there are fishes or objects in the water.



The schools of fish or objects detected by the sensor will display in red or green.

! Trouble Shooting

- Setup / How to use
Refer to the Official Web Page "Beginner Guide" for more detailed explanation.
- The display doesn't refresh while in Scan Mode
You may be out of battery. Please charge the battery. SONA.rBall may also be too far from your smartphone. Try again after bringing SONA.rBall nearer.
- I want to reset the Bluetooth settings
Use the reset pin as shown in the picture by having the pins extremities get in contact with the respective dots. The reset will then be complete.
- I can't pair correctly.
The pairing settings differ depending on your smartphone and its OS version. Refer to SONA.rBall official Web Page "Beginner Guide" for more detailed explanations.



! Precautions

A wrong use of the product can be the cause of skin burn, fire or malfunction.

For a safe use, please read the contents below carefully.

- The suitable water temperature to use this device is between -10 to 40°C. Using the device below or above this temperature may result in a malfunction.
 - Keep this product in a place between -10 and 40°C.
 - Be careful of not keeping the device in colder or hotter environment (such as in a car under the sun), or it may cause a malfunction.
 - After use, wash the device with clear water to drop dirt and salt, and keep it after wiping all the water drops.
 - This product retains the TELEC certification as a radio equipment delivered by the Radio Administration. Therefore, there is no need of the Radio Administration license when using this product. This is only available for the Japanese territory.
 - Do not make any hazardous use of this product close to machines that could lead to severe consequence. Do not use this product in places where radio emittance is prohibited such as hospitals or planes. This product might cause malfunction for medical devices (such as pace makers) because of the radio wave emittance.
 - When plugging in or unplugging the USB cable, make sure to hold the connector (plug) and not to pull the cable itself.
 - Be careful of plugging in the USB cable the right way (Up and Down sides)
 - Make sure to not use too much strenght when plugging in or unplugging this product. If you do so it may result in damaging the product.
 - Check the user guide of the device to which you want to connect this product in advance.
 - Do not plug or unplug this device with wet hands.
 - Do not dismount or customize this product.
 - Do not provoke big shocks to this product.
 - Stop using the product if the cable covering material is damaged or if the connectors are unsteady.
 - Explain clearly how to use this product when a child is using it. Make sure the child is using the way you are explaining.
 - Keep this product safe from infants.
 - The contents of this user guide might change in the future without prior notice.
- !** Connecting this product to an AC adapter with different output voltage might result in having the product or the device connected malfunction, to be damaged, to heat, to produce smoke or fire. Moreover, if you use a USB plug (AC adapter) exceeding the rated output current, it might result in having the product or the device connected malfunction, to be damaged, to heat, to produce smoke or fire.

About the Bluetooth® function

- This product Bluetooth® function is in conformity with the Japanese radio standards, FCC standards and the EC precepts, and is authorized by each.
- The GHz band the Bluetooth® function uses is used by many devices. In some cases, a decline of the communication distance or its sudden interruption can occur because of nearby devices influence.
- Do not use the product in places with magnetism from electric or AV/A devices, or with electromagnetic waves.
- Radio noise may increase when surrounding magnetism or radio noise is strong, and cause a communication interruption (especially when using a micro wave)
- The reception of televisions or radios can be blurred if the product is used nearby.
- The possible communication distance vary depending on the devices distance and on the presence of obstacles between.

■ Precautions about the use of 2.4GHz band.
This product Bluetooth® uses a 2.4GHz band.

- Be sure that another radio station (such as micro wave aurn or other electrical home furniture, industrial - chemical - medical devices, mobile body identification premises radio stations used in factory production lines and requiring a licence, low power radio stations not requiring any licence, amateur radio stations etc.) is not operating nearby before using the product
- If by any chance any radio-frequency interference occurs in another radio station, change the place of use without delay, or stop using the product.
- If you need more assistance, please contact us.

▶ Bluetooth® function: 2.4FH8

This product Bluetooth® uses a 2.4GHz band. The FH-SS modulation method is used, and the interference distance is 80m maximum. The mobile identification apparatus bandwidth can not be avoided. The usable channels vary country by country. Check if the use of this product fits each airline company rules. Understand that our company will not be responsible for any data leak due to the Bluetooth® communication.

Trademark

- Bluetooth is a registered trademark of Bluetooth SIG, Inc. USA
- iPhone, iPad and iPod are trademarks of Apple Inc.
- Apple is a registered trademark of Apple Inc. in USA and other countries.
- The iPhone trademark is used based on Aiphone Co., Ltd. License
- The iOS trademark is used based on USA Cisco license.
- Google, Google Play and Android are registered trademarks of Google Inc..
- All company names or product names written on other products are all registered trademarks of each respective companies.

Specifications

Product name	SONA.rBall
Material	Product main body: Polycarbonate, Silicon Charging stand: Polycarbonate, TPE, brass USB Cable: Resin component: PVC, Copper wire material: tin Reset pin: Steel wire, Charge contact pin: Stainless steel.
Frequency	380KHz ±10%
Pulse type continuous signal length	25~250usec (When the pulse length increases, the range of detection increase as well)
Detection measurement of the depth.	40m Maximum. (The maximum depth measured vary depending on the water bottom quality)
Suitable temperature	-10~40°C
Bluetooth connection distance	30m Maximum (The Bluetooth connection distance vary depending on the communication environment and the weather)
Body	Weight : 117g, Diameter: 68.6mm
Charging stand	Weight : 23g
USB Cable	Weight: 16g
Built-in battery type	Lithium Polymer battery
Built-in battery capacity	3.7V DC 600mAh
Electricity consumption	Wait condition/0.5mAh, Active condition/70mAh
Battery maximum runtime	About 8h (Vary depending on the conditions and environment in which the product is used)
Standby	500h+
Charging needed time	About 1.5h

About the warranty

Please use this product after you understand this contents below.

- Check if the date and place of purchase are written on this guide. If the above and/or your name are not written clearly, or if the written information are voluntarily rewritten, repairs or exchange will be charged.
- The product will be repaired or replaced for free if you make a correct use of it as stipulated on this user guide and during the warranty period.
- For the cases below, repairs will be charged (Or repairs and exchange will not be possible):
 - You didn't make a correct use of the product.
 - In case of malfunction due to an improper repair or disassembly.
 - In case of a faulty handling leading to an accident, or if a fall traces are present.
 - In case of damage due to earthquakes, storm and flood, natural disaster, fire, salt damage or abnormal voltage use.
- Repair or exchange demands can not be received depending on the damage condition.
- We do not hold responsibility for any kind of damage or loss due to this product breakdown.
- We do not hold responsibility for any kind of damage or loss due to a connection to a device unspecified in this guide.
- We do not dispatch anyone for repair or exchange.
- This warranty is only valid in Japan.**
- This warranty will not be issued again. Keep it safely.

Inquiries

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